

CLAIMS

What is claimed is:

1. A battery unit comprising:
an electrode unit comprising:
a positive electrode plate,
a separator, and
a negative electrode plate,
wherein the positive electrode plate, the separator, and the negative electrode plate are disposed in sequential order;
electrode leads extending from each of the positive and negative electrode plates of the electrode unit; and
a finishing tape provided on an outermost surface of the electrode unit, comprising:
an adhesive layer having a low adhesive strength, and
a polymer film layer coated with the adhesive layer,
wherein the finishing tape is detachably attached to the electrode unit so as to detach in response to the electrode unit deforming.
2. The battery unit of claim 1, wherein the electrode unit is wound in a jelly-roll type structure.
3. The battery unit of claim 1, wherein the polymer film layer comprises at least one selected from the group consisting of polyethylene, polystyrene, polypropylene and polyethyleneterephthalate (PET).
4. The battery unit of claim 1, wherein the adhesive layer has an adhesive strength of 500g/25mm or less.
5. The battery unit of claim 1, wherein the adhesive layer comprises an acryl-based adhesive.
6. A lithium secondary battery comprising:

an electrode unit comprising:
 a positive electrode plate,
 a separator, and
 a negative electrode plate,
 wherein the positive electrode plate, the separator, and the negative electrode plate are disposed in sequential order;
 electrode leads extending from each of the positive and negative electrode plates of the electrode unit;
 a finishing tape provided on an outermost surface of the electrode unit, comprising:
 an adhesive layer having a low adhesive strength, and
 a polymer film layer coated with the adhesive layer,
 wherein the finishing tape is detachably attached to the electrode unit so as to detach in response to the electrode unit deforming; and
 a case providing a space in which the electrode unit is accommodated, and having a sealing surface thermally fused along the periphery of the space.

7. The lithium secondary battery of claim 6, wherein the electrode unit is wound in a jelly-roll type structure.

8. The lithium secondary battery of claim 6, wherein the polymer film layer comprises at least one selected from the group consisting of polyethylene, polystyrene, polypropylene and polyethyleneterephthalate (PET).

9. The lithium secondary battery of claim 6, wherein the adhesive layer comprises an acryl-based adhesive.

10. The lithium secondary battery of claim 6, wherein the adhesive layer has an adhesive strength of 500 g/25 mm or less so that the adhesive layer is temporarily separated from the outermost surface of the electrode unit in response to the electrode unit deforming, and is attached again to the outermost surface of the electrode unit in response to the electrode unit returning to an original shape of the electrode unit.